DISCOVER-AQ HSRL Data Summary

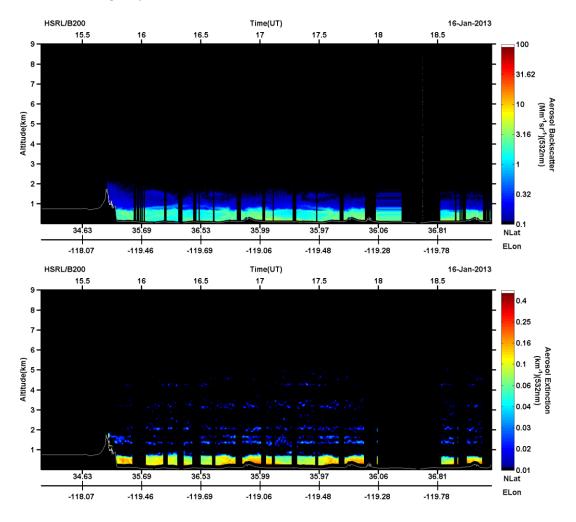
FLIGHT: Morning science flight (1 of 2)

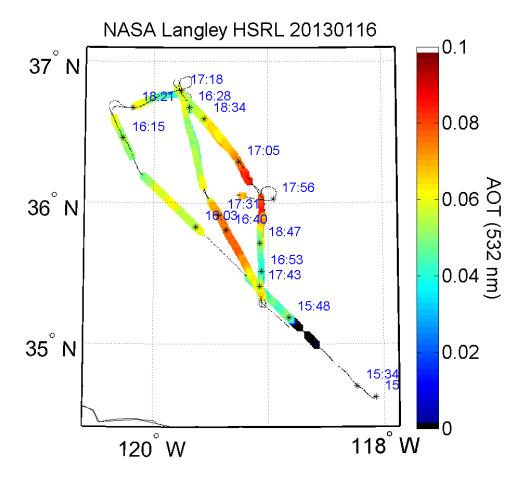
DATE: Jan 16 2013

DURATION: 4 hours

SUMMARY: HSRL operated nominally; however, a power breaker blew a few times during the flight, bringing down all instruments. A very shallow boundary layer was observed with low scattering and extinction. The boundary layer showed some small scale structure both vertically and horizontally, i.e., it was not well-mixed.

SUMMARY PLOTS (last leg only):



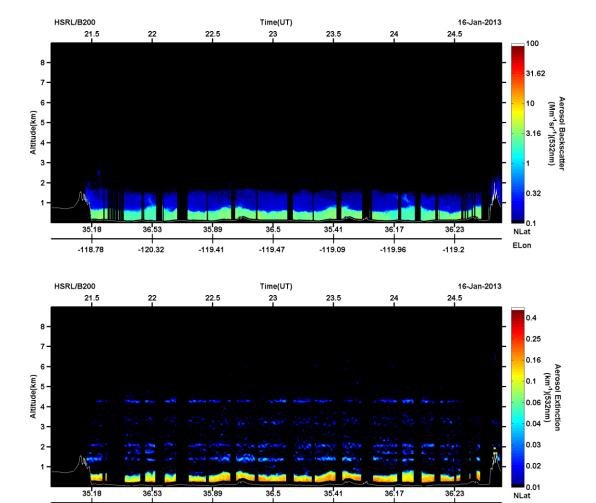


FLIGHT: Afternoon science flight (2 of 2)

DATE: Jan 16 2013

DURATION: 4 hours

SUMMARY: The problem with the power breaker was diagnosed and fixed between flights. HSRL operated nominally. The boundary layer height, scattering, and extinction did not increase significantly during the flight; however, the layer did become well-mixed vertically and showed less small scale horizontal structure.



35.89

-119.41

-119.47

-120.32

-118.78

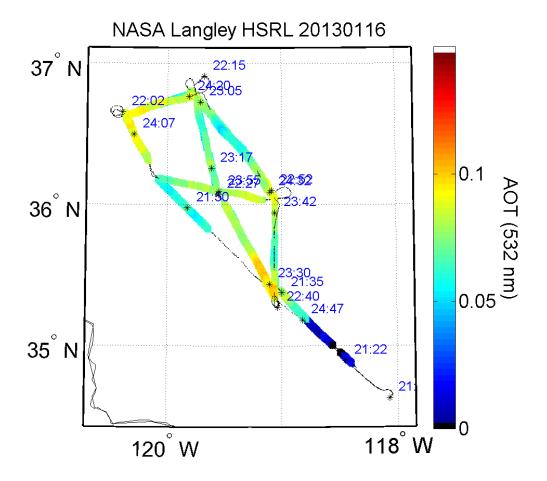
36.17 -119.96

35,41

-119.09

36.23 -119.2

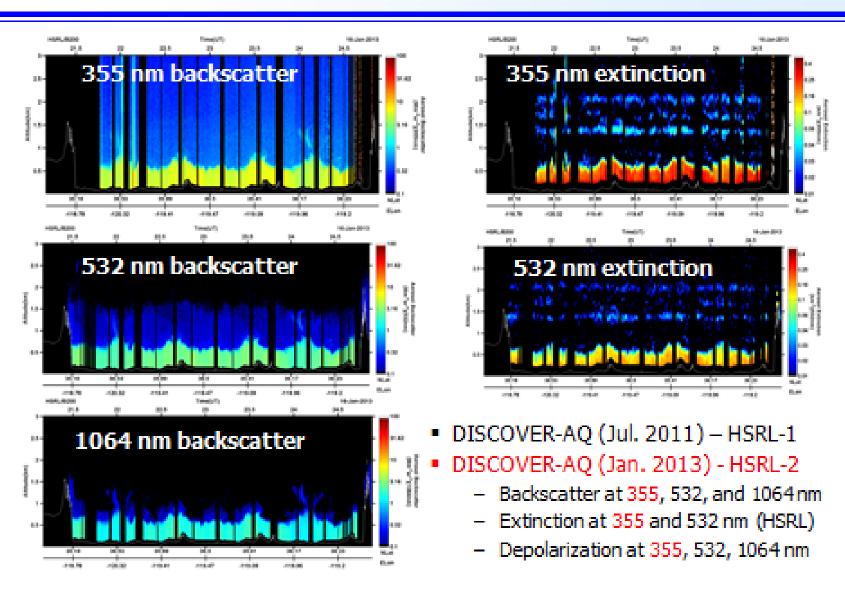
ELon



On the following pages are Rich Ferrare's charts on HSRL-2 presented at the 4:00 tagup on 17 January

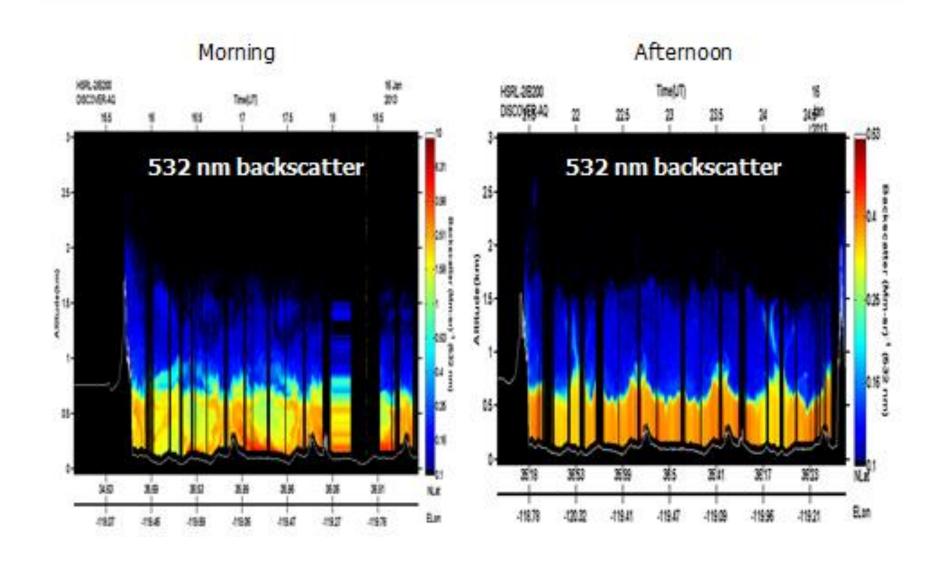
HSRL-2 adds measurements at 355 nm





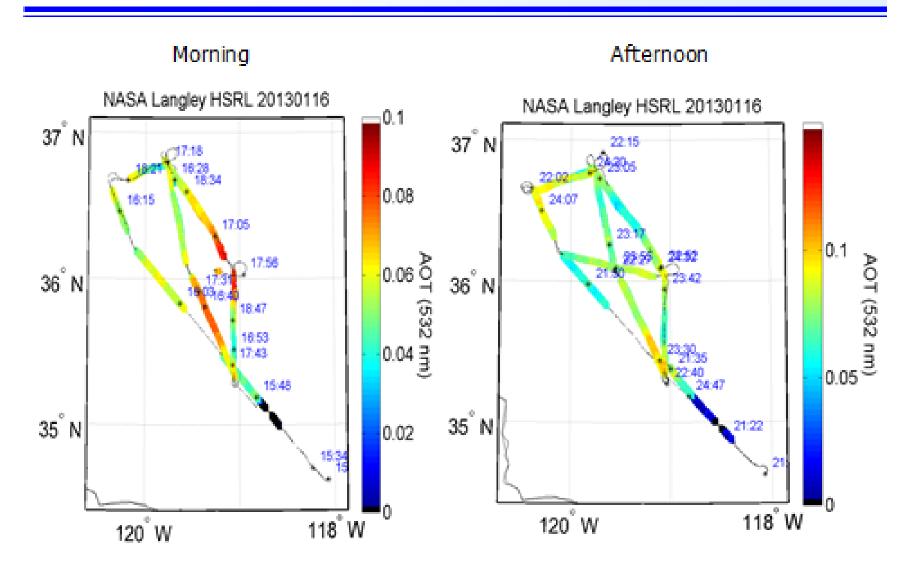
HSRL-2 measurements of temporal and vertical aeosol variability





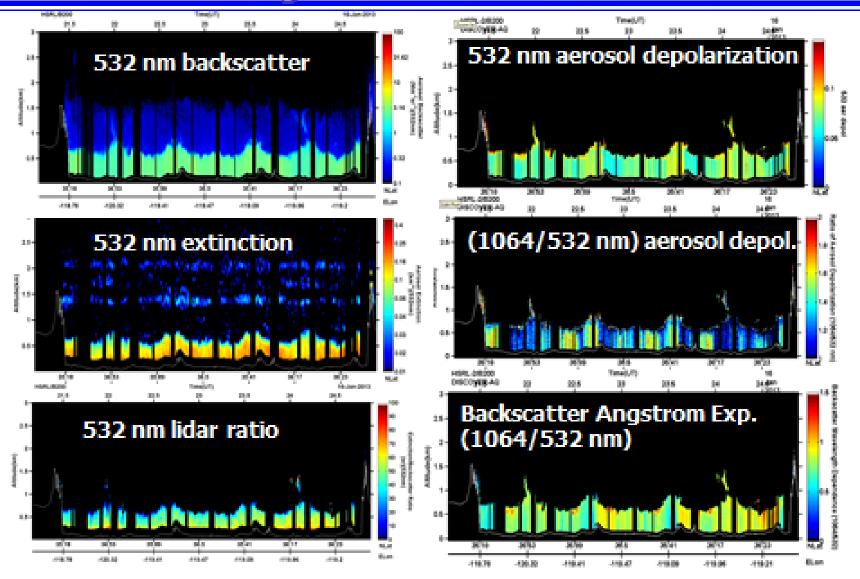
HSRL-2532 nm AOT Jan. 16 2013 Flight 2





HSRL-2 sample subset of measurements Jan. 16 2013 Flight 2





HSRL-2 sample subset of measurements Jan. 16 2013 Flight 2



